MS Armaturen GmbH

Product information

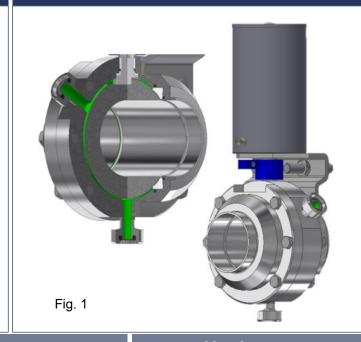
M&S-Ball valves

M&S ball valves are used to shut off media flows. They have a full passage when open. Therefore, they are particularly suitable for viscous products and piggable pipelines.

The PTFE/PEEK seal ensures high resistance to aggressive media or high temperatures. In addition, the ball provides a shearing effect during the switching process, which is avantageous for lumpy or fibrous products.

Standard version

Standard version with cleaning connection



Usage Features Versions

- For shutting off liquid, viscous and lumpy media flows.
- In piggable piping systems and pigging stations.
- Also for regulating flow rates in conjunction with a positioner.
- For chemically aggressive media or high temperatures.

Usage Features Versions

- Pipe level full passage.
- Piggable.
- Modular system, can be combined with many attachments of the butterfly valve programme.
- Stable, reliable and maintenance-friendly design.
- Can be fully automated with TOP control and feedback head and positioner.
- Optionally with flushing connections (figure 1) or heating jacket.
- Dimensionally stable PTFE/PEEK sealing shells.
- Gap-free centring and sealing of the flanges in accordance with DIN11864.
- Pre-stressed sealing shells to reduce product carry-over.
- Low torque.
- Optionally conductive sealing shells to dissipate electrostatic charge in accordance to ATEX.



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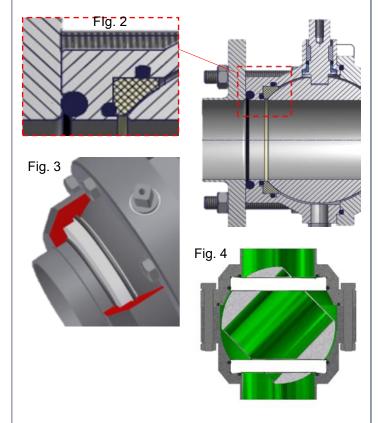
M&S-Ball valves

Usage Features Versions

Special features

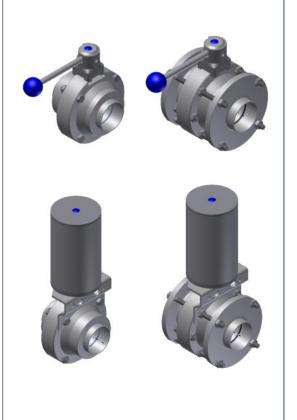
- Dynamic sealing of the ball against product carry-over. The PTFE/PEEK sealing shells are pre-stressed by FEP-covered O-rings and pressed against the ball. During switching operations under flow, the sealing shells are thus held in position and product carry-over is minimised (figures 2+3).
- The installation geometry prevents the PTFE/ PEEK sealing shells from expanding into the product space (figure 2). This is advantageous for systems with pigging applications.
- The backwash of the ball rear chamber can be achieved by repeated actuation (cycling) of the valve during cleaning.

A fixed 45-degree position of the ball is also suitable for rinsing the back space of the ball. This position can be achieved by a stepless handle or by a positioner (figure 4).



Usage Features Versions

- Sizes
 - * DN 25 DN 100
- Process connections
 - * Weld ends
 - Connecting elements from the M&S portfolio
- Operation
 - Manual, pneumatic or electrical
- Automation
 - Different control heads (FIELD BUS-systems) or position controllers
- Operating pressure
 - * 10 bar (DN 15 DN 100)
- Material
 - * Housing: AISI316L/1.4404; special stainless steel, Titanium oder Hastelloy on request
 - Gaskets: PTFE/PEEK, O-rings FEP-covered, FDA-compliant
- Surfaces
 - In contact with product Ra ≤ 0,8 μm
 - * Not in contact with product *Ra* ≤ 1,6 μm
- Optionally with flushing connections for cleaning the ball rear chamber (figure 1) or with heating jacket
- Optionally conductive sealing shells (ATEX)



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